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### 1 [High dynamic range imaging](#)



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik  
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
**Publisher:** ACM

Full text available: [pdf\(20.22 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 49, Downloads (12 Months): 807, Citation Count: 0

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent ...

## 2 Visualizing geospatial data



Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne  
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

**Publisher:** ACM

Full text available: [pdf\(14.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 39, Downloads (12 Months): 871, Citation Count: 0

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• ...

## 3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 CASCAN '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

**Publisher:** IBM Press

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 77, Downloads (12 Months): 1090, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

## 4 Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

**Publisher:** ACM

Full text available: [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 639, Citation Count: 21


This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, ...

**Keywords:** HTML, WWW, application, development, intranet, modeling

## 5 [A formal model of annotations of digital content](#)

 Maristella Agosti, Nicola Ferro  
November 2007 ACM Transactions on Information Systems (TOIS), Volume 26 Issue 1

**Publisher:** ACM

Full text available:  [pdf\(759.60 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 81, Downloads (12 Months): 309, Citation Count: 0


This article is a study of the themes and issues concerning the annotation of digital contents, such as textual documents, images, and multimedia documents in general. These digital contents are automatically managed by different kinds of digital library ...

Keyw ords: Annotation, digital content, digital library system, foundations, hypertext

## 6 [Streams, structures, spaces, scenarios, societies \(5s\): A formal model for digital libraries](#)

 Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp  
April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

**Publisher:** ACM

Full text available:  [pdf\(316.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 456, Citation Count: 13

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keyw ords: applications., definitions, foundations, taxonomy

## 7 [Tools and approaches for developing data-intensive Web applications: a survey](#)

 Piero Fraternali  
September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

**Publisher:** ACM

Full text available:  [pdf\(524.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 837, Citation Count: 39

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development ...

Keywords: HTML, Intranet, WWW, application, development

## 8 Information systems interoperability: What lies beneath?



Jinsoo Park, Sudha Ram

October 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 4

**Publisher:** ACM

Full text available: pdf(824.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 610, Citation Count: 4

Interoperability is the most critical issue facing businesses that need to access information from multiple information systems. Our objective in this research is to develop a comprehensive framework and methodology to facilitate semantic interoperability ...

Keywords: Information integration, mediators, ontology, semantic conflict resolution, semantic heterogeneity

## 9 Hyperform: a hypermedia system development environment



Uffe K. Wiil, John J. Leggett

January 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 1

**Publisher:** ACM

Full text available: pdf(362.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 51, Citation Count: 12

Development of hypermedia systems is a complex matter. The current trend toward open, extensible, and distributed multiuser hypermedia systems adds additional complexity to the development process. As a means of reducing this complexity, there has been ...

Keywords: advanced hypermedia system architecture, extensible hyperbase management system, object-oriented extension language


**10** Chimera: hypermedia for heterogeneous software development environments



Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead, Jr.

July 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 3

**Publisher:** ACM

Full text available:  [pdf\(864.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation Count: 20

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central ...

Keyw ords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments


**11** From context to content: leveraging context to infer media metadata



Marc Davis, Simon King, Nathan Good, Risto Sarvas

October 2004 MULTIMEDIA '04: Proceedings of the 12th annual ACM international conference on Multimedia

**Publisher:** ACM

Full text available:  [pdf\(373.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 173, Citation Count: 21

The recent popularity of mobile camera phones allows for new opportunities to gather important metadata at the point of capture. This paper describes a method for generating metadata for photos using spatial, temporal, and social context. We describe ...

Keyw ords: content-based image retrieval, context-to-content inference, contextual metadata, location-based services, mobile camera phones, wireless multimedia applications


## 12 An automated end-to-end lecture capture and broadcasting system



Cha Zhang, Yong Rui, Jim Crawford, Li-Wei He

January 2008 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 4 Issue 1

**Publisher:** ACM

Full text available:  [pdf\(3.55 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 22, Citation Count: 0

Remote viewing of lectures presented to a live audience is becoming increasingly popular. At the same time, the lectures can be recorded for subsequent on-demand viewing over the Internet. Providing such services, however, is often prohibitive due to ...

**Keywords:** Automated lecture capture, lecture broadcasting, live/on-demand broadcasting

## 13 A mobile computing middleware for location- and context-aware internet data services



Paolo Bellavista, Antonio Corradi, Rebecca Montanari, Cesare Stefanelli

November 2006 ACM Transactions on Internet Technology (TOIT), Volume 6 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(316.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 72, Downloads (12 Months): 780, Citation Count: 0

The widespread diffusion of mobile computing calls for novel services capable of providing results that depend on both the current physical position of users (location) and the logical set of accessible resources, subscribed services, preferences, and ...

**Keywords:** Mobile computing, adaptive services, context awareness, location awareness, middleware, mobile agents, policies


## 14 Principled design of the modern Web architecture



Roy T. Fielding, Richard N. Taylor

May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue 2

**Publisher:** ACM

Full text available:  [pdf\(335.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 696, Citation Count: 9

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, ...


Keyw ords: Network-based applications, REST, World Wide Web

**15** Complex relationships and knowledge discovery support in the InfoQuilt system

A. Sheth, S. Thacker, S. Patel

May The VLDB Journal — The International Journal on Very Large Data  
2003 Bases, Volume 12 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(596.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 92, Citation Count: 3

Support for semantic content is becoming more common in Web-accessible information systems. We see this support emerging with the use of ontologies and machine-readable, annotated documents. The practice of domain modeling coupled with the extraction ...


**16** Moving digital libraries into the student learning space: The GetSmart experience



Byron B. Marshall, Hsinchun Chen, Rao Shen, Edward A. Fox

March Journal on Educational Resources in Computing (JERIC), Volume 6  
2006 Issue 1

**Publisher:** ACM

Full text available:  pdf(402.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 396, Citation Count: 0

The GetSmart system was built to support theoretically sound learning processes in a digital library environment by integrating course management, digital library, and concept mapping components to support a constructivist, six-step, information search ...


Keyw ords: Concept maps, digital libraries, education

**17** [Context-aware platform for mobile data management](#)

Moira C. Norrie, Beat Signer, Michael Grossniklaus, Rudi Belotti, Corsin Decurtins, Nadir Weibel

December 2007      Wireless Networks, Volume 13 Issue 6

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(765.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 1, Citation Count: 0

Interaction design is a major issue for mobile information systems in terms of not only the choice of input/output channels and presentation of information, but also the application of context-awareness. To support experimentation with these factors, ...

Keyw ords: context-awareness, interactive paper, mobile information systems, rapid prototyping, web publishing


**18** [Its about time: link streams as continuous metadata](#)



Kevin R. Page, Don Cruickshank, David De Roure

September 2001      HYPERTEXT '01: Proceedings of the twelfth ACM conference on Hypertext and Hypermedia

**Publisher:** ACM

Full text available:  [pdf\(289.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 35, Citation Count: 3

As enabling technologies become available there is an increasing use of temporal media streams, such as audio and video, within a hypertext context. In this paper we present the rationale and requirements for delivering continuous metadata alongside ...


Keyw ords: metadata, open hypermedia, streamed media, temporal linking

**19** [Point-of-capture archiving and editing of personal experiences from a mobile device](#)

Chon-In Wu, Chao-Ming James Teng, Yi-Chao Chen, Tung-Yun Lin, Hao-Hua Chu, Jane Yung-Jen Hsu

April 2007      Personal and Ubiquitous Computing, Volume 11 Issue 4

**Publisher:** Springer-Verlag

Full text available:  [pdf\(765.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 38, Downloads (12 Months): 319, Citation Count: 0



Personal experience computing is an emerging research area in computing support for capturing, archiving, and editing. This paper presents our design, implementation, and evaluation of a mobile authoring tool called mProducer ...


Keyw ords: Mobile user interfaces, Multimedia editing tools, Personal experiences

## 20 Experimental platform for mobile information systems



Rudi Belotti, Corsin Decurtins, Moira C. Norrie, Beat Signer, Ljiljana Vukelja  
August      MobiCom '05: Proceedings of the 11th annual international conference on  
2005      Mobile computing and networking

**Publisher:** ACM

Full text available:  [pdf\(987.54 KB\)](#)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 16,   Downloads (12 Months): 154,   Citation Count: 4

Interaction design is a major issue for mobile information systems in terms of not only the choice of input-output channels and presentation of information, but also the application of context-awareness. To support experimentation with these factors, ...

Keyw ords: interactive paper, mobile information system, rapid prototyping, tourist guide, voice interface, web publishing

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